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MALDON
RURAL DISTRICT COUNCIL

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

(JOHN F. MACDONALD, M.D., D.P.H.)

FOR

1951

W. H. Houldershaw, Ltd., 49-55, London Road,
SOUTHEND-ON-SEA

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COUNCIL OFFICES,
LONDON ROAD,
CHELMSFORD.
1st July, 1952.

**To the Chairman and Members of the
Maldon Rural District Council.**

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour of presenting for your consideration my Annual Report on the health and sanitary circumstances of your District for the year 1951.

The Birth Rate for the year 1951 was 17.0 per 1,000 of the population as against 15.9 for the previous year. The Death Rate was 14.5 as against 12.7 for the year 1950.

When corrected for age and sex distribution of the population the birth rate was 19.5 and the death rate 10.2 per 1,000 of the population for the year 1951.

Malignant and heart diseases were responsible for 118 deaths or 54.8 per cent of the total deaths.

Seventy-seven per cent of the deaths were of persons over 65 years of age, forty-five per cent were over 75 years, and 31 per cent over 80 years. One person was registered as 100 years, and another as 105 years of age at the time of death.

For assistance rendered in the preparation of this Report, I am indebted to my colleagues.

To the Council, may I express my appreciation for their consideration.

I am,

Your obedient servant,

JOHN F. MACDONALD.

PREVALENCE OF AND CONTROL OVER INFECTIOUS DISEASES.

Notifiable Diseases (other than Tuberculosis) during 1951.

Five hundred and forty cases of notifiable diseases (exclusive of Tuberculosis) came under observation compared with 196 for the previous year. The large increase was due to an epidemic of measles, fortunately of a comparatively mild nature, which continued from the beginning of the year to the 3rd week in August.

Notifiable Disease	Total Cases	Under 1	1—2	2—3	3—4	4—5	5—10	10—15	15—20	20—35	35—45	45—65	65 and over	Cases admitted to Hospital	Total Deaths
Scarlet Fever	13	—	—	1	2	1	5	2	—	1	1	—	—	4	—
Whooping Cough .. .	85	4	6	13	18	15	27	—	—	—	1	—	1	—	—
Measles	422	10	30	34	51	49	199	34	8	3	4	—	—	2	—
Pneumonia	16	—	2	—	3	1	—	—	1	2	—	3	4	—	—
Food Poisoning	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—
Dysentery	2	—	—	—	1	—	—	1	—	—	—	—	—	—	—
Erysipelas... ..	1	—	—	—	—	—	—	—	—	—	—	—	1	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	540	14	38	48	75	66	232	37	9	6	6	3	6	6	

No case of Diphtheria has been notified, during the last ten years, and no death, from this disease, has occurred during the last 16 years. These results are, mainly due to the immunisation carried out, among children under 15 years of age.

One case of food poisoning came under observation. The source of infection was not known.

Tuberculosis.

New Cases and Mortality during 1951.

Particulars are given in the following table of new cases of Tuberculosis and of deaths from the disease in the area during 1951.

Age Groups			* New Cases				Deaths			
			Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
			M.	F.	M.	F.	M.	F.	M.	F.
Under 1	...	...	—	—	—	—	—	—	—	—
1—5	...	...	—	—	1	—	—	—	—	—
5—10	...	...	—	—	1	—	—	—	—	—
10—15	...	...	—	—	—	—	—	—	—	—
15—20	...	...	1	—	—	—	—	—	—	—
20—25	...	...	—	1	—	—	—	—	—	—
25—35	...	...	2	1	—	—	—	—	—	—
35—45	...	...	—	—	—	—	—	—	1	—
45—55	...	...	2	—	—	—	1	—	—	—
55—65	...	...	—	—	1	—	—	—	—	—
65 and over	...	...	—	—	—	—	—	—	1	—
TOTALS	...	...	5	2	3	—	1	—	2	—

* Not including cases of Tuberculosis removed into the district during the year which had been previously notified elsewhere.

Table showing local distribution of infectious diseases notified during 1951.

PARISH	Scarlet Fever	Whooping Cough	Measles	Pneumonia	Food Poisoning	Dysentery	Erysipelas	Pulmonary Tuberculosis	Other forms of Tuberculosis
Althorne	—	—	15	1	—	—	—	1	—
Asheldham	—	—	6	—	—	—	—	—	—
Bradwell-on-Sea	—	—	14	—	—	—	—	—	—
Great Braxted	1	—	14	—	—	—	—	—	—
Little Braxted	—	3	6	—	—	—	—	—	—
Cold Norton	—	—	7	1	—	—	—	—	2
Dengie	—	—	17	—	—	—	—	—	—
North Fambridge	—	—	4	—	—	—	—	1	—
Goldhanger	1	1	19	2	—	—	—	1	—
Hazeleigh	—	3	3	—	—	—	—	—	—
Langford	—	1	4	—	—	—	—	1	—
Latchingdon	—	1	35	2	—	—	—	—	—
Mayland	—	—	17	—	—	—	—	1	—
Mundon	—	—	2	1	—	—	1	—	—
Purleigh	—	2	8	—	—	—	—	1	—
St. Lawrence	—	—	3	—	—	—	—	—	—
Southminster	—	10	48	1	—	—	—	—	—
Steeple	1	—	5	—	—	2	—	—	—
Stow Maries	—	—	5	—	—	—	—	—	—
Tillingham	—	1	42	—	—	—	—	—	—
Tollesbury	6	36	15	—	—	—	—	—	—
Tolleshunt D'Arcy	1	2	17	—	—	—	—	—	—
Tolleshunt Knights	—	1	7	—	—	—	—	—	—
Tolleshunt Major	—	6	7	2	—	—	—	—	—
Great Totham	2	9	26	4	—	—	—	1	1
Little Totham	—	4	19	1	—	—	—	—	—
Ulting	—	—	2	—	—	—	—	—	—
Wickham Bishops	1	4	47	1	—	—	—	—	—
Woodham Mortimer	—	—	3	—	—	—	—	—	—
Woodham Walter	—	1	5	—	1	—	—	—	—
Totals ...	13	85	422	16	1	2	1	7	3

GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

As from 5th July, 1948, all hospitals providing treatment (for patients in the area) have been transferred to Regional Hospital Boards.

INSTITUTIONAL PROVISION FOR UNMARRIED MOTHERS, ILLEGITIMATE INFANTS AND HOMELESS CHILDREN IN THE AREA, is provided by the Essex County Council.

AMBULANCE FACILITIES.

These are provided free to patients by the Essex County Council.

The ambulance depot for the area is at the Fire Station, London Road, Maldon.

CLINICS AND TREATMENT CENTRES (provided by the County Council).

Tuberculosis Dispensary :

Combined Treatment Centre, Wantz Chase, Maldon ; 2nd and 4th Thursday, 10 a.m.—12 noon.

Maternity and Child Welfare Centres :

Mayland	Henry Samuel Hall	4th Thursday in each month 2.30 p.m.	Doctor attends alternate months
Bradwell-on-Sea	Village Hall	1st Wednesday in each month 2.30 p.m.	Doctor in attendance
South-minster	Baptist Chapel School Room	4th Monday in each month 2 p.m.	Doctor in attendance
Tollesbury	Institute	1st and 3rd Tuesdays in each month 2 p.m.	Doctor in attendance
Wickham Bishops	Church Room	2nd Wednesday in each month 2.30 p.m.	Doctor in attendance
Althorne	Village Hall	3rd Wednesday 2 p.m.	Doctor in attendance

Maternity and Child Welfare Centres—contd.

Cold Norton	Village Hall	4th Tuesday in each month 2 p.m.	Doctor in attendance
Tillingham	Village Hall	2nd Thursday in each month 2.30 p.m.	Doctor in attendance
Mundon	Victory Hall	4th Thursday in each month 2 30 p.m.	Doctor attends alternate months
Heybridge	Waring Hall	2nd and 4th Tuesdays in each month 2 p.m.	Doctor attends 2nd Tuesday
Maldon	Health Centre	Every Friday 2 p.m.	Doctor attends 1st, 3rd, and 5th Fridays
*Woodham Walter	Women's Institute Club Room	3rd Thursday in each month 2.30 p.m.	Doctor in attendance
*This Clinic has the Medical Officer in attendance only when there are 5 Thursdays in the month and the Clinic is held on that Thursday instead of 3rd Thursday.			
Goldhanger	Village Hall	3rd Thursday in each month 2 p.m.	Doctor in attendance
Tolleshunt D'Arcy	Village Hall	1st Thursday in each month 2.30 p.m.	Doctor in attendance
Great Braxted	Du Cane Arms	1st Wednesday in each month 2.30 p.m.	Weighing centre No doctor in attendance

Ante-Natal Clinics

Health Centre, Wantz Chase, Maldon	3rd and 5th Tuesday in each month 9.30 a.m.	Doctor in attendance
Institute, Tollesbury	3rd Monday 2 p.m	Doctor in attendance
Village Hall, Goldhanger	3rd Thursday in each month 2 p.m.	Doctor seen by appointment

Women's Welfare Clinic :

Health Centre, Wantz Chase, Maldon	1st Tuesday 10 a.m.	Doctor in attendance
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School Clinics :

Orthopaedic After Treatment Centre	Health Centre, Wantz Chase, Maldon	Every Tuesday, Wed- nesday and Thursday by appointment
Minor Ailments Clinic	Health Centre, Wantz Chase, Maldon	1st, 3rd & 5th Fridays 9.30 a.m.—12 noon. Doctor in attendance
Eye Clinic	Health Centre, Wantz Chase, Maldon	Doctor seen by ap- pointment
Speech Therapy	Health Centre, Wantz Chase, Maldon	By appointment

Dental Clinics are also held at the Maldon Health Centre and other places in the district as and when required.

For operative treatment for the removal of Adenoids and enlarged Tonsils arrangements have been made by the Essex County Education Committee at the following hospitals :—

Chelmsford and Essex, Chelmsford ; St. John's, Chelmsford ; and Essex County, Colchester.

Treatment Centres for Venereal Diseases :

These are situated at Chelmsford and Colchester Hospitals Oldchurch County Hospital, Romford, and a number of London General Hospitals,

PROFESSIONAL NURSING IN THE HOME.

(a) General Nursing—this is under the supervision of the County Council.

(b) Infectious Diseases. No arrangements have been made by the District Council.

HOME HELPS. Are provided through the County Council.

LABORATORY FACILITIES. These services are provided by the Essex County Council and Medical Research Council.

During the year no action was taken under Section 47 of National Assistance Act, 1948 (Removal to suitable premises of persons in need of care and attention).

Section 50 of the National Assistance Act, 1948, made the district council responsible for the burial or cremation of the body of any person who has died or been found dead in their area, where no suitable arrangements for the disposal of the body have been or are being made otherwise than by the authority.

Since the passing of the act the following burials were carried out.

1948	...	...	...	...	—
1949	...	...	...	...	1
1950	...	...	...	...	1
1951	...	...	...	...	2
Total ...					4

PUBLIC CLEANSING.

At the end of 1951 scavenging was undertaken by the District Council through contractors as follows :—

Althorne	...	...	Removal of contents of pail closets.
Goldhanger	...	...	Removal of contents of pail closets.
Mayland	...	...	Removal of contents of pail closets.
Southminster	...		Removal of contents of pail closets and house refuse.
Steeple	...	...	Removal of contents of pail closets.
Tollesbury	...	...	Removal of contents of pail closets and house refuse.
Tolleshunt D'Arcy	...		Removal of contents of pail closets.
Woodham Walter	...		Removal of contents of pail closets.

Owing to difficulty of labour these services were curtailed.

On the whole these contractors carry out the work satisfactorily, but the time has approached when the District Council should undertake scavenging over a much larger area.

In addition to the above, a monthly collection of tins, bottles and similar refuse in 28 parishes is undertaken.

SANITARY INSPECTION OF THE AREA.

The following table, prepared by the Sanitary Inspector is a classified statement of the number of premises visited, the defects or nuisances discovered, and the action and result of action taken in regard to these.

SANITARY INSPECTION OF THE AREA.

INSPECTIONS		NOTICES				
Nature	Number	Informal	Formal	Total complied with	Outstanding at the end of year	
					Informal	Formal
Dwelling Houses :						
Under Housing Regs.	36	—	—	—	—	—
Primary Inspections Re :						
Structural Defects	72	22	—	24	10	—
Nuisances	54	13	—	16	3	—
Overcrowding	139	—	—	—	—	—
Dirty conditions	11	—	—	—	—	—
Re Inspections :						
Under Housing Regs.	7	—	—	—	—	—
Re Structural defects	32	—	—	—	—	—
Nuisances	65	—	—	—	—	—
Overcrowding	151	—	—	—	—	—
Dirty Conditions	29	—	—	—	—	—
Verminous Premises :						
Rats and Mice	382	—	—	—	—	—
Other Pests	132	2	—	2	—	—
Infectious Diseases						
Inquiries	241	—	—	—	—	—
Disinfections	7	—	—	—	—	—
Sewage and Drainage :						
House Drainage Inspections	646	10	—	11	10	—
Tests	46	—	—	—	—	—
Other Forms Inspections	70	3	—	3	2	—
Tests	6	—	—	—	—	—
Inspections re cesspools	134	6	—	9	—	—
Inspections re sewerage	255	1	—	1	—	—
Sanitary Conveniences :						
Dwelling Houses	316	2	—	8	—	—
Other Premises	120	1	—	—	4	—
Water Supply :						
Samples taken	34	—	—	—	—	—
Other visits	343	5	—	5	—	—
Milk and Dairies Inspections :						
Cowsheds	6	—	—	—	—	—
Dairies	33	—	—	—	—	—
Milk samples taken	—	—	—	—	—	—
Food Inspection :						
Meat	24	—	—	—	—	—
Other Foods	35	—	—	—	—	—
Inspections Re :						
Licensed Premises	33	1	—	—	1	—
Offices	1	—	—	—	—	—
Bakehouses	44	—	—	—	—	—
Slaughterhouses	23	—	—	—	—	—
Butchers' Shops	52	—	—	—	—	—
Food Shops	75	—	—	—	—	—
Other Shops	7	—	—	—	—	—
Ice Cream, Man. Premises	4	—	—	—	—	—
Ice Cream, Dealers' Premises	38	—	—	—	—	—
Man. Food Premises	18	—	—	—	—	—
Restaurants	22	—	—	—	—	—
Factories with Mech.	64	—	—	—	—	—
Factories without Mech.	18	—	1	1	—	—
Workplaces	6	—	—	—	—	—
Outworkers Premises	5	—	—	—	—	—
Places of Entertainment	6	—	—	—	—	—
Knackers Yards	3	—	—	—	—	—
Refuse and Salvage	88	1	—	1	1	—
Schools	18	—	—	—	—	—
Rivers, Ditches and Streams	80	6	—	6	1	—
Swimming Pools	18	—	—	—	—	—
Movable Dwelling	59	—	—	—	—	—
Fried Fish Shops	—	—	—	—	—	—
Stables and Piggeries	16	2	—	2	—	—
Miscellaneous Inspections	221	—	—	—	—	—
TOTALS	4345	75	1	89	32	—

Smoke Abatement. During the year, difficulties occurred with one factory, due to overloading and unsatisfactory stoking. Improvements in the heating arrangements were carried out, which, it is hoped, will prove effective.

Swimming Baths and Pools. There is a small open-air salt-water pool at Tollesbury. Improvements are under construction.

Knackers' Yards. There is one in the district, situated in the parish of Purleigh.

Moveable Dwellings. During the year 25 licences to site moveable dwellings were granted under Section 269 of the Public Health Act, 1936.

Bakehouses. There are 13 in the district, situated in the following parishes :— Goldhanger 1, Purleigh 2, Stow Maries 1, Tillingham 2, Tolleshunt D'Arcy 1, Tollesbury 3, Wickham Bishops 2, and Woodham Walter 1.

Generally speaking these are kept clean, and regularly white-washed.

Maggot Breeding. There are, at present, two factories of this type in the district. Complaints of unpleasant odour, especially from one of them, were received during the year.

To have more administrative control, the Council applied to the appropriate Government department to have this type of industry classified as an offensive trade. This was refused.

ADMINISTRATION OF THE FACTORIES ACT, 1937.

1.—**Inspections** for the purposes of provisions as to health.
Including inspections made by Sanitary Inspectors.

Premises	Number on Register	Number of		
		Inspections	Written Notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	21	19	—	—
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	56	82	—	—
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding out-workers' premises)	Nil	Nil	—	—
TOTAL ...	77	101	—	—

2.—Cases in which Defects were found.

Particulars	Number in which defects were found				Number of Cases in which Prosecutions were Instituted
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector	
Want of Cleanliness (S.1)	6	8	—	—	—
Overcrowding (S.2) ...	—	—	—	—	—
Unreasonable Temperature (S.3)	1	—	1	—	—
Inadequate Ventilation (S.4)	—	—	—	—	—
Ineffective Drainage of Floors (S.6)	—	—	—	—	—
Sanitary Conveniences (S.7) :					
Insufficient	—	1	—	—	—
Unsuitable or Defective	1	2	—	—	—
Not separate for sexes	—	—	—	—	—
Other Offences against the Act (not including offences relating to out-work)	—	—	—	—	—
TOTAL ...	8	11	1	—	—

OUTWORK (Sections 110-111)

Nature of Work	Section 110			Section 111		
	No. of out-workers in August list required by Sect. 110 (1) (c) (3)	No. of cases of default in sending lists to the Council	No. of prosecution for failure to supply lists	No. of instances unwholesome premises	Notices Served	Prosecutions
Wearing apparel { Making etc. Cleaning and washing ...	8	—	—	—	—	—
	—	—	—	—	—	—
Total ...	8	—	—	—	—	—

INSPECTION AND SUPERVISION OF FOOD.

Milk Supply.

There are 17 distributors (non-producers) of milk in the district which are supervised by the District Council.

Meat and Other Foods.

There are 7 slaughter houses in the district, but owing to Ministry of Food control and centralising of slaughtering, these are used in the main, for the killing of pigs, under the Ministry of Food Domestic Suppliers' scheme.

Routine inspections were made, during the year, of these premises.

WATER SUPPLY.

By the end of 1951 a piped water supply from the mains owned by the District Council was available to 92·8 per cent of the population. The figures for each parish are set out in the table on page 17.

The supply is augmented from three local works :—

Springs at Woodham Walter.

Springs at Asheldam.

Deep well at Tollesbury.

The supplies from these three works are chlorinated.

For some time the quantity of water from the deep well at Tollesbury has been diminishing. During 1912, before the well was constructed, a 3 inch bore was made when it was found that 24,000 gallons was pumped in 24 hours. Recent tests show that it has fallen to 5,000 gallons in 24 hours. As a supply from the South Essex Waterworks Company is available, the continuation of the deep well supply is no longer an attractive economic proposition.

Under the Southend Waterworks Act and the South Essex Waterworks Act, the District Council has certain legal rights to be supplied by these companies with a bulk supply of water. The following table gives details of the water supplied to the District for the year ending 31st March, 1952 :—

Source of Supply	Total Gallons	Average Daily
South Essex Waterworks Co. ...	133,087,000	364,000
Southend Waterworks Co. ...	7,828,000	21,000
Lexden and Winstree	9,336,000	26,000
Total Amount Purchased ...	150,251,000	411,000
Asheldam	6,820,000	18,000
Tollesbury	289,000	1,000
Woodham Walter	21,810,000	59,000
Total ...	28,919,000	78,000
Total supplied from All Sources	179,170,000	489,000

The total amount of water supplied for previous year was 177,516,000 gallons. During 1951-1952 there were 602 meters in use for non-domestic use and during the year 62,386,000 gallons were supplied through these meters as against 63,168,000 gallons for the previous year.

Summary of Work Carried Out by Waterworks Department

Description	Year ending 31.3.52	31.3.51	Increase or Decrease
New services installed ...	111	135	24 D
New meters installed ...	23	45	22 D
Meters changed on existing supplies	61	80	19 D
Meters removed from existing supplies	2	9	7 D
Services repaired	106	94	12 I
Mains repaired	35	51	16 D
New Valves and Hydrants fixed	51 H 6 V	9	48 I
Valves and Hydrants repaired	2 H 14 V	7	9 I
New Mains laid	1,270 yds.	815 yds.	455 yds. I
Total mileage of Water Mains of all sizes at 31.3.52, 151 miles.			

**RECORD OF HABITABLE HOUSES AND WATER
SUPPLY AS AT 31st DECEMBER, 1951.**

PARISH	Habitable Houses (not includ- ing Huts or Vans)	No. of Houses on Domestic Water Supply	Within 100 yds. of water main but not supplied	Where piped water supply is not available
Althorne	154	145	—	9
Asheldam	51	47	—	4
Bradwell-on-Sea	246	226	13	7
Braxted, Great	119	57	19	43
Braxted, Little	43	38	5	—
Cold Norton	129	128	1	—
Dengie	48	37	—	11
Fambridge, North	96	85	10	1
Goldhanger	155	143	7	5
Hazeleigh	38	34	3	1
Langford	49	31	1	17
Latchingdon	193	173	6	14
Mayland	147	134	7	6
Mundon	90	86	1	3
Purleigh	292	284	6	2
St. Lawrence	108	99	6	3
Southminster	504	464	3	37
Steeple	125	111	3	11
Stow Maries	59	59	—	—
Tillingham	260	213	17	30
Tollesbury	573	558	9	6
Tolls. D'Arey	277	231	27	19
Tolls. Knights	133	132	1	—
Tolls. Major	124	101	6	17
Totham, Great	413	383	17	13
Totham, Little	88	69	6	13
Ulting	43	18	—	25
Wickham Bishops	286	227	14	45
Woodham Mortimer... ..	113	111	2	—
Woodham Walter	172	125	20	27
TOTALS	5128	4549	210	369

Number of properties served by communal standpipes.

<i>Parish</i>	<i>No. of Standpipes</i>	<i>Properties served</i>
Southminster, Old Heath ...	3	25
T. Major. Pennysbrook ...	1	7
Latchingdon, Riverside Estate	2	Permanent 18 Temporary 128 (incl. hutments, etc).
Althorne, Smugglers Club Ground	1	Permanent 2 Temporary 54 (incl. hutments, etc.)

**Number of Properties in District receiving water supply
other than from Maldon Rural District Council.**

Langford and Ulting ...	16	Supplied direct by Southend Waterworks
Cold Norton	5	Supplied direct by Southend Waterworks
Ulting	3	Supplied by Braintree R.D.C.
Woodham Mortimer ...	4	Supplied by Maldon Borough Council
Goldhanger	1	Supplied by Maldon Borough Council
Little Totham	4	Supplied by Maldon Borough Council

**Number of Properties outside Maldon Rural District
supplied by Maldon Rural District Council.**

Witham	9
Maldon	3

Sample of Water from the Engine House, Woodham Walter Pumping Station

						<i>Chemical Result in Parts per Million</i>
Appearance	...	...	...	...	...	Bright with very few mineral particles
Turbidity	...	...	...	...	...	less than 3
Colour	...	...	...	...	...	Nil
Odour	...	...	...	...	...	Nil
pH	...	...	...	...	...	6.5
Free Carbon Dioxide	...	...	...	...	...	31
Electric Conductivity	...	...	...	...	...	350
Total Solids	...	...	...	...	...	235
Chlorine present as Chloride	...	...	...	...	...	28
Alkalinity as Calcium Carbonate	...	...	...	...	...	40
Hardness : Total	...	...	...	...	...	145
Carbonate	...	...	...	...	...	40
Non-carbonate	...	...	...	...	...	105
Nitrate Nitrogen	...	...	...	...	...	9.0
Nitrite Nitrogen	...	...	...	...	...	less than 0.01
Ammoniacal Nitrogen	...	...	...	...	...	0.000
Oxygen absorbed	...	...	...	...	...	0.05
Albuminoid Nitrogen	...	...	...	...	...	0.000
Residual Chlorine	...	...	...	...	...	Absent
Metals	...	...	...	...	...	Absent
Fluorine	...	...	...	...	...	Absent less than 0.1

Bacteriological Results

Number of Colonies developing on Agar

1 day at 37°C. 0 per ml.

2 days at 37°C. 0 per ml.

3 days at 20°C. 0 per ml.

Presumptive Coli-aerogenes Reaction : Present in 0 ml.

Absent from 100ml.

Probable Number 0 per ml

Bact. coli (Type I)

Present in 0 ml.

Absent from 100ml.

Probable number 0 per 100
ml.

Cl. Welchii Reaction :

Present in —ml.

Absent from —ml.

Report

This sample is practically clear and bright in appearance and is free from metals. It has, however, a reaction of the acid side of neutrality on account of which it will show corrosive

characteristics. The hardness of the water and its content of mineral and saline constituents in solution are very moderate, and its organic quality and bacterial purity are of a high standard.

These results are indicative of a water which is pure and wholesome in character, and suitable for public supply purposes apart from the corrosive characteristics mentioned.

SOUTH ESSEX WATERWORKS COMPANY

ANALYSIS OF SAMPLES OF WATER PUMPED FROM THE WORKS AT LANGHAM AND LAYER-DE-LA-HAYE.

(CHEMICAL RESULTS IN PARTS PER MILLION)

	Langham	Layer-de-la-Haye
Appearance	Clear and Bright	Clear and Bright
Colour A.P.H.A.	Under 10	Under 10
Turbidity, silica scale	Under 0.5	Under 0.5
Odour	Nil	Nil
Taste	Nil	Nil
Electric Conductivity 20°C.	720	550
Total solids 180°C.	504	385
Reaction P.H.	7.8	7.9
"Free Chlorine"	0.32	0.24
Chlorides as Cl.	34	39
Total Oxidised Nitrogen	7.9	2.6
Nitrites as N	Nil	Nil
Hardness, Permanent	152	136
,, Temporary	246	150
,, Total	398	286
Free Ammonia	0.08	0.14
Albuminoid Ammonia	0.09	0.14
Oxygen absorbed 4hrs. 27°C.	1.20	1.33
Metals		
Colony Count per m.l. on		
Agar 1 day at 37°C.	9	7
Ditto 3 days at 20°C.	18	8
Presumptive col absent in	100 M.L.	100 M.L.
Bact. Coli absent in	100 M.L.	100 M.L.
Cl. Welchii Absent in	100 M.L.	100 M.L.

Sample of Water from the Mains of the Southend Water-works Company.

						<i>Chemical Results in Parts per Million</i>
Appearance	...	...	...	...	...	Bright with a very slight deposit consisting of minute chalk particles
Turbidity	...	...	...	...	...	Less than 3
Colour	...	...	...	...	...	less than 10
Odour	...	...	...	...	...	Nil
pH	...	...	...	...	...	9.0
Free Carbon Dioxide	...	...	...	...	...	Absent
Electric Conductivity	...	...	...	...	...	520
Total Solids	...	...	...	...	...	350
Chlorine present as Chlorides	...	...	...	...	...	40
Alkalinity as Calcium Carbonate	...	...	...	...	...	18
Hardness : Total	...	...	...	...	...	135
Carbonate	...	...	...	...	...	18
Non-carbonate	...	...	...	...	...	117
Nitrate Nitrogen	...	...	...	...	...	6.0
Nitrite Nitrogen	...	...	...	...	...	approx. 0.01
Ammoniacal Nitrogen	...	...	...	...	...	0.076
Oxygen Absorbed	...	...	...	...	...	1.1
Albuminoid Nitrogen	...	...	...	...	...	0.075
Residual Chlorine	...	...	...	...	...	0.20
Metals	...	...	...	...	...	Absent

Bacteriological Results

Number of Colonies developing on Agar :

1 day at 37°C. 0 per ml.

2 days at 37°C. 1 per ml.

3 days at 20°C. 1 per ml.

Presumptive Coli-aerogenes Reaction :

Present in 0 ml.

Absent from 100 ml.

Probable number 0
per 100 ml.

Bact. coli. (Type I)

...

...

...

Present in 0 ml.

Absent from 100 ml.

Probable number 0
per 100 ml.

Cl. Welchii Reaction

...

...

...

Present in 100 ml.

Absent from 10 ml.

Report

This sample is practically clear and bright in appearance. The water is free from metals and alkaline in character, but not to an excessive degree. Its hardness and its content of mineral and saline constituents in solution are very moderate. It is of satisfactory organic quality and of a high standard of bacterial purity.

These results are indicative of a water which is pure and wholesome in character and suitable for public supply purposes.

RIVERS AND STREAMS.

The Rivers Blackwater and Chelmer flow through the district. Neither of these rivers receives polluting matter to any extent while flowing through the Maldon Rural District. The Chelmsford Corporation Water Act, 1923, authorises the Corporation of Chelmsford to abstract water from the River Chelmer near Sandford Mill in the Rural District of Chelmsford—the quantity not to exceed 1,000,000 gallons per day. The Southend Waterworks Act, 1924, authorises the Southend Waterworks Company to abstract water from the River Chelmer near Rushes Lock and from the River Blackwater at Langford. The Hanningfield Water Order 1950 authorises the South Essex and Southend Waterworks Companies to extract water, not exceeding 43 million gallons in any period of 14 days, from the Chelmer and Blackwater rivers. The Southend Waterworks Act provides that the effluent from the Chelmsford Joint Sewerage Works be carried by a pipe past the point of intake at Rushes Lock and the effluent from the Witham Sewage Works beyond the point of intake from the River Blackwater at Langford. The discharge of such large volumes of sewage effluent into the rivers after a good deal of water has been extracted may cause a nuisance.

The following table classifies the houses erected and owned by the District Council into Parlour and Non-Parlour types.

PARISH	Parlour Type	Non-Parlour Type	Totals
Althorne	—	—	—
Asheldham	5	2	7
Bradwell-on-Sea	12	6	18
Braxted, Great	12	6	18
Braxted, Little	—	4	4
Cold Norton	—	10	10
Dengie	—	8	8
Fambridge, North	—	—	—
Goldhanger	8	38	46
Hazeleigh	—	6	6
Langford	—	—	—
Latchingdon	8	26	34
Mayland	—	12	12
Mundon	10	12	22
Purleigh	8	18	26
St. Lawrence	—	—	—
Southminster	48	28	76
Steeple	10	12	22
Stow Maries	6	12	18
Tillingham	20	6	26
Tollesbury	48	20	68
Tolleshunt D'Arcy	36	16	52
Tolleshunt Knights	—	10	10
Tolleshunt Major	6	12	18
Totham, Great	49	29	78
Totham, Little	4	6	10
Ulting	—	—	—
Wickham Bishops	31	26	57
Woodham Mortimer	12	6	18
Woodham Walter	14	12	26
TOTALS	347	343	690

The total includes six cottages erected by Parish Council in Tolleshunt D'Arcy; six Coastguard cottages (parlour) re-erected on a new site in Bradwell-on-Sea. Buildings at Asheldham converted into three dwellings.

Nine cottages (non-parlour) purchased by Council (Wickham Bishops). 18 Agricultural cottages (parlour):— Asheldham 4, Southminster 4, Steeple 6, Tolleshunt D'Arcy 4.

**Table showing Census Population 1921 and 1931, and
Number of Houses Census 1931 and December, 1951.**

PARISH	Area in statute acres (land and inland water)	Tidal water and fore- shore	Num- ber of Houses 1931	Census Population		Number of Houses at end of Dec. 1951 excl. of hutments
				1921	1931	
Althorne	2080	255	117	401	390	154
Asheldham	1310	—	42	203	168	51
Bradwell-on-Sea ...	5221	4230	188	747	657	246
Braxted Great ...	2634	—	85	283	282	119
Braxted Little ...	622	—	36	109	116	43
Cold Norton	1692	—	102	326	384	129
Dengie	2856	1186	54	181	192	48
Fambridge North...	1242	107	50	177	168	96
Goldhanger	1622	—	107	361	353	155
Hazeleigh	991	—	33	121	114	38
Langford	991	3	49	167	169	49
Latchingdon	3992	207	122	420	419	193
Mayland	1870	—	99	343	360	147
Mundon	3076	—	60	269	251	90
Purleigh	5771	87	223	857	770	292
St. Lawrence	2139	324	20	132	71	108
Southminster	6512	828	439	1592	1403	504
Steeple	2709	47	94	391	343	125
Stow Maries	1610	82	48	147	165	59
Tillingham	4928	2593	211	836	670	260
Tollesbury	4839	2019	467	1721	1694	573
Tolleshunt D'Arcy...	4104	415	236	780	748	277
Tolleshunt Knights	1926	—	78	235	252	133
Tolleshunt Major ...	2253	2	96	338	370	124
Totham Great	3589	—	286	973	982	413
Totham Little	1281	—	85	301	293	88
Ulling	1034	—	37	144	143	43
Wickham Bishops...	1606	—	191	498	639	286
Woodham Mortimer	1387	—	69	229	268	113
Woodham Walter ...	2620	—	141	612	514	172
TOTALS ...	78507	12385	3865	13894	13348	5128

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Area (acres)	...	...	78,507 (land and inland water)
Home Population (estimated June, 1951)			14,840
„	„	„	„ under 15 years of age 3,378
Census Population, 1951	...	14,962 (males 7,335, Females 7,627)	
Census Population, 1931	...	...	13,348
Number of inhabited houses 1931 census	...	...	3,865
Estimated number of houses at end of 1951	...	...	5,128
Rateable Value at 1st April, 1951	...	...	£87,928
Product of a Penny Rate for the year ending :—			
31st March, 1951	...	...	£363 16 8
31st March, 1952	...	...	£372 16 6

Except in certain centres, the District is sparsely populated. Nearly half of the population is directly or indirectly dependent upon agriculture.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR

		Total	Males	Females	
Live Births	{ Legitimate	242	120	122	} Birth Rate per 1,000 of the estimated population
	{ Illegitimate	11	6	5	
					 17·0
Still Births	{ Legitimate	1	—	1	} Rate per 1,000 total (live and still) Births ...
	{ Illegitimate	—	—	—	
					3·9
Deaths	...	215	106	109	} Death Rate per 1,000 of the estimated population
					 14·5

Deaths :—

Pregnancy, Childbirth, Abortion	...	...	...	Nil
---------------------------------	-----	-----	-----	-----

Number of deaths of infants under 1 year of age :—

Males 2 (illegitimate Nil), Females 1 (illegitimate nil)

Total 3

The number of deaths among infants under one year of age was only 3, which is exceptionally low. Of these, 1 was due to premature birth (only survived 2 hours), 1 due to accident (overlying) and 1 due to lungs not expanding normally.

Deaths of Infants under 1 year of age :—

Legitimate per 1,000 Legitimate Live Births	...	12·4
Illegitimate „ „ Illegitimate „ „	...	Nil
All Infants „ „ Live Births	...	15·8

Deaths from Malignant neoplasms (all ages)	...	29
„ „ Measles (all ages)	...	—
„ „ Whooping Cough (all ages)	...	—
„ „ Diarrhoea (under 2 years of age)	...	—

The following tabular statements give details of the number of deaths classified according to age and cause :—

Age	Number of deaths							
	Occurring in district		Of non-residents occurring in district		Of residents occurring outside district		Allotted to district	
	M	F	M	F	M	F	M	F
Under 1 year	1	1	—	—	1	—	2	1
1 and under 2	—	1	—	—	1	—	1	1
2 „ „ 5	—	—	—	—	—	—	—	—
5 „ „ 15	—	—	—	—	—	1	—	1
15 „ „ 25	2	—	2	—	2	—	2	—
25 „ „ 35	1	1	—	—	—	—	1	1
35 „ „ 45	1	2	1	—	2	—	2	2
45 „ „ 55	6	1	2	—	1	3	5	4
55 „ „ 65	9	6	—	—	3	7	12	13
65 „ „ 75	24	18	—	—	12	16	36	34
75 and over	31	36	2	4	16	20	45	52
TOTALS	75	66	7	4	38	47	106	109
GRAND TOTALS	141		11		85		215	

Causes of Death	Males	Females	Totals
Tuberculosis, respiratory. ...	1	—	1
Tuberculosis, other ...	2	—	2
Syphilitic disease... ...	1	—	1
Diphtheria ...	—	—	—
Whooping Cough... ...	—	—	—
Meningococcal Infections ...	—	—	—
Acute Poliomyelitis ...	—	—	—
Measles ...	—	—	—
Other Infective and Parasitic Diseases	1	1	2
Malignant Neoplasm, Stomach ...	4	1	5
Malignant Neoplasm, Lung, Bronchus	1	1	2
Malignant Neoplasm, Breast ...	—	2	2
Malignant Neoplasm, Uterus ...	—	2	2
Other Malignant and Lymphatic Neoplasms	8	10	18
Leukaemia, Aleukaemia... ...	—	3	3
Diabetes ...	—	1	1
Vascular Lesions of Nervous System ...	14	15	29
Coronary Disease, Angina ...	25	13	38
Hypertension with Heart Disease ...	1	3	4
Other Heart Disease ...	19	28	47
Other Circulatory Disease ...	2	2	4
Influenza ...	1	5	6
Pneumonia ...	1	4	5
Bronchitis... ...	5	5	10
Other Diseases of Respiratory System	2	1	2
Ulcer of Stomach and Duodenum ...	1	—	1
Gastritis, Enteritis and Diarrhoea ...	1	1	2
Nephritis and Nephrosis ...	—	—	—
Hyperplasia of Prostate ...	2	—	2
Pregnancy, Childbirth, Abortion ...	—	—	—
Congenital Malformations ...	1	—	1
Other defined and ill-defined diseases ...	8	9	17
Motor vehicle accidents ...	1	1	2
All other accidents ...	1	1	2
Suicide ...	3	1	4
Homicide and operations of war ...	—	—	—
Totals ...	106	109	215

COMPARATIVE TABLE OF BIRTH AND DEATH RATES
DURING THE YEAR, 1951.

	Rate per 1 000 civilian population		Deaths under 1 year per 1 000 registered live births
	Live Births	Deaths from all causes	
England and Wales ...	15·5	12·5	29·6
126 County Boroughs and Great Towns including London	17·3	13·4	33·9
148 Smaller Towns with Resident Population of from 25,000 to 50,000 (1931 Census)	16·7	12·5	27·6
Maldon Rural District ...	17·0	14·5	15·8

When corrected for age and sex distribution of population, Maldon Rural District's birth rate becomes 17.0 and death rate 11.1.

The natural increase in the population, namely, the excess in the number of live births over the number of deaths, is shown in the following tabular statement for each of the ten years 1941—1951.

Year	No. of Births	No. of Deaths	Natural Increase
1941 ...	202	201	+ 1
1942 ...	205	196	+ 9
1943 ...	193	204	—11
1944 ...	255	174	+81
1945 ...	214	185	+29
1946 ...	268	204	+64
1947 ...	259	192	+67
1948 ...	240	135	+105
1949 ...	223	192	+31
1950 ...	234	188	+46
1951 ...	253	215	+38

PUBLIC HEALTH STAFF.

Clerk to the Rural District Council L. H. Hiscott

Medical Officer of Health ... John F. Macdonald, M.D.,
Ch.B., D.P.H., who also acts
in this capacity for the Rural
District of Chelmsford.

Surveyor and Water Engineer ... I. M. Nicholson, M.I.Mun.E.,
A.M.I.S.E.

Senior Sanitary Inspector ... G. L. Turner, M.R.San.I.
Qualified Inspector of Meat
and other Foods.

Additional Sanitary Inspector ... L. F. Newnham, M.R.San.I.,
Qualified Inspector of Meat
and other Foods.

Housing Assistant V. A. Arnold.

Clerk to Sanitary Inspectors ... Miss V. J. Guiver

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